

Intelligent Transportation Systems

To: Delaware Energy Plan Transportation Energy Use Work Group

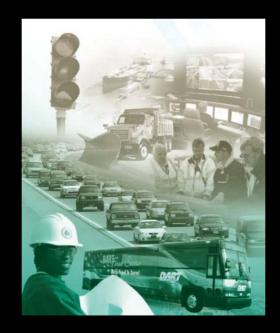
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What is ITS?

"ITS improves transportation safety and mobility and enhances productivity through the use of advanced information and communications technologies." - RITA





ITS in Delaware

DelTrac

- E-ZPass Electronic Toll Collection
- Traffic Adaptive Signal Systems
- Transportation Management Teams
- Works with other area agencies to improve transportation
- More on this later todayby Gene Donaldson





New Jersey

- Integrated traffic signal systems
- Incident management systems
- Traffic management systems
- Traffic information systems
- Other ITS components
 - Dynamic/Variable Message Signs
 - Closed circuit television surveillance
 - Highway Advisory Radio
 - Fiber optic communication network



Maryland

- Coordinated Highways Action Response Team (CHART)
- 220 Closed Circuit Television Cameras
- Location of Vehicles with Cellular Signals
- Variable Message Signs





- Pennsylvania
 - Incident Command Center
 - Ramp Metering
 - Traffic Cameras
 - Programmable Message Signs and Traffic Radio





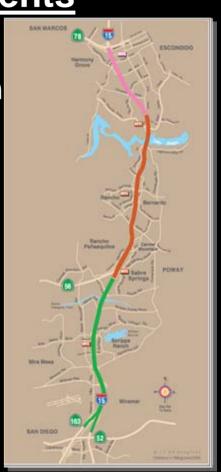
- New York State
 - New York MOVES
 - NYS HELP program
 - Travel Time Information Systems
 - Small Urban and Rural ITS Toolbox





San Diego Association of Governments

- I-15 ICMS Corridor in San Diego
 - 511 Advanced Traveler Information System (511 ATIS)
 - Bus Rapid Transit (BRT) system
 - Transit Oriented Development
 - Ramp Metering
 - Virtual Corridor Transportation Management Center (VCTMC)





Minnesota

- Minnesota Guidestar
 - 511 and 511mn.org
 - Mn/PASS I-394 "HOT" Lanes
 - CAD CARS Integration



- Japanese Ministry of Land, Infrastructure,
 Transportation and Tourism
 - Services Provided Through ITS
 - Provide driving and road conditions information
 - Pedestrian route guidance/Vehicle-pedestrian accident avoidance
 - Automatic emergency notification
 - Optimization of traffic flow





Australia

- ITS Australia aggressive targets of zero deaths and zero congestion
 - Drive Time (a real time traffic information sign)
 - Incident detection systems
 - Weigh-In Motion System.
 - Sydney Coordinated Adaptive Traffic System (SCATS)
 - Smart Glasses to warn drowsy drivers





United Kingdom

- ITS UK
 - Smart Point
 - Variable Message Signs
 - Motorway car share lanes
 - Electronic Toll System
 - Digital Traffic Enforcement System
 - Congestion Pricing





China

- Hong Kong Intelligent Transport System
 - Traffic Control and Surveillance System (TCSS)
 - Area Traffic Control (ATC)
 - Traffic Management and Information Centre (TMIC)
 - Sends information wirelessly to commuters
 - Deployed a GPS-based vehicle tracking and fleet management system

Intelligent Transportation Systems

Thank You!

